ORiNOCO® 11b Client PC Card

Simple, convenient and secure 802.11b wireless connectivity for Laptop, Handheld and Portable Computing Devices

The ORiNOCO 11b Client PC Card can be used anywhere to connect to 802.11b Wi-Fi networks. The card provides 11 Mbit/s operation in the 2.4 GHz license-free frequency band. With superior radio performance and resilience to radio interference, ORiNOCO has been proven to give the best 802.11b range and throughput in the industry. The card also supports 802.11d global roaming to simplify connecting at facilities world-wide.

Offered in Silver and Gold versions, the card is equipped with a choice of security levels to protect your data: Silver with a 64-bit WEP key, or Gold with user selectable 64- and 128-bit WEP keys. Both versions support ORiNOCO's WEP+ weak key Initialization Vector suppression technology to make the cards more robust against security attacks. Both versions are upgradeable to Wi-Fi Protected Access (WPA).

Both Gold and Silver versions of the card are furnished with a streamlined form factor and short antenna which makes it easier to work in crowded spaces. The Gold version antenna includes a built-in connector for an external Range Extender Antenna which improves performance locations where it is difficult to 'see' an Access Point.
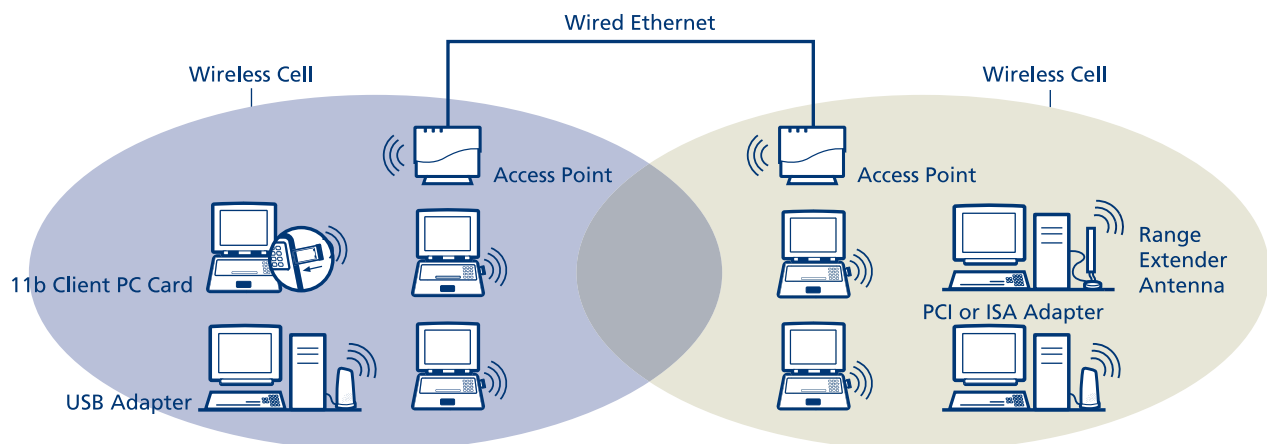
The ORiNOCO 11b Client PC Card connects all your laptop, handheld and portable computing devices to any Wi-Fi 802.11b wireless network. With a smaller antenna and flatter profile, this card is easy to use in tight spaces. The install wizard, global roaming support and superior ORiNOCO performance give you everything you need to work the way you want, anytime and anywhere in the world.

APPLICATIONS
- Small/medium business, enterprises: improved productivity with mobile network, Internet, and email inside buildings, around campus
- Universities: flexible, immediate, mobile faculty and student connectivity in dorms, classrooms, offices
- Quick network build-out for new employees
- Hospital-wide transmission of bandwidth-intensive medical data and image files

FEATURES
- Plugs directly into PCMCIA card slot
- Intuitive client manager for easy, fast configuration
- Up to 100 location profiles
- Global roaming per 802.11d standard
- Wide coverage range of up to 1,750ft / 550m
- 802.1x authentication, 64-bit key WEP (Silver), 64/128-bit WEP key (Gold)
- Connector for external Range Extender Antenna (Gold only)

Wired Ethernet

Wireless Cell

Wireless Cell

Access Point

Access Point

11b Client PC Card

Range Extender Antenna

PCI or ISA Adapter

USB Adapter

Take your network further

WIRELESS NETWORKS

ORiNOCO 11b Client PC Card Specifications

www.proxim.com

INTERFACE	
PCMCIA	

RADIO CHARACTERISTICS	
Frequency	2400 - 2483.5 MHz
Modulation Techniques	Direct Sequence Spread Spectrum (CCK, DQPSK, DBPSK)
Spreading	11-chip Barker Sequence
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK
Bit Error Rate (BER)	Better than 10^{-5}
Nominal Output Power	15 dBm
Power Consumption PC Card	Doze mode – 9 mA Receiver mode – 185 mA Transmit mode – 285 mA

RANGE (METERS/FT)	11 MBIT/S	5.5 MBITS	2 MBIT/S	1 MBIT/S
Open	160m (525 ft)	270m (885 ft)	400m (1300 ft)	550m (1750 ft)
Semi-open	50m (165 ft)	70m (230 ft)	90m (300 ft)	115m (375 ft)
Closed	25m (80 ft)	35m (115 ft)	40m (130 ft)	50m (165 ft)
Receiver Sensitivity dBm	-82	-87	-91	-94
Delay Spread (at FER of <1%)	65ns	225ns	400ns	500ns

PHYSICAL SPECIFICATIONS	
Dimensions	117.8mm X 53.95mm X 8.7mm (PC Card)
Weight	55 gram

ENVIRONMENTAL SPECIFICATIONS	Temperature	Humidity
Operating	0-55° C	95% (non condensing)
Storage	-20-75° C	95% (non condensing)

POWER SUPPLY	
Voltage	5VDC from host (±0.2V)

LEDS	
2 LEDs:	Power Network Activity

OPERATING SYSTEMS
Windows 98/2000, Me and XP

MTBF
150,000 hours based on workload, of 2040 hours/year (continuous operation), within operating conditions

WARRANTY
3 years

PACKAGE CONTENTS
• PCMCIA Card • Getting Started Guide • Installation Software CD-ROM

ORDERING INFO	
8420	ORiNOCO 11b Client PC Card Gold
8421	ORiNOCO 11b Client PC Card Silver

RELATED PRODUCTS
AP-2500, AP-2000, AP-600, BG-2000 Range Extender Antenna (2.5 dBi)

PROXIM
WIRELESS NETWORKS

WiFi CERTIFIED®

OD32-0503